

SEQUENCE LISTING

(1) GENERAL INFORMATION

5           (i) APPLICANT: Lincoln, Steve  
Klinger, Tod M.  
Au-Young, Janice  
Tang, Y. Tom  
Goold, Richard  
Akerblom, Ingrid E.  
Seilhamer, Jeffrey J.  
Hawkins, Phillip R.  
Murry, Lynn E.  
Delegeane, Angelo M.  
Levine, Wendy B.  
Hillman, Jennifer L.  
Goli, Surya K.  
Altus, Christina M.  
Bandman, Olga  
LaBrie, Samuel T.  
Shah, Purvi

25           (ii) TITLE OF THE INVENTION: Database for Storage and Analysis of Full Length Sequences

30           (iii) NUMBER OF SEQUENCES: 10

35           (iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Bozicevic & Reed, L.L.P.
- (B) STREET: 285 Hamilton Ave.
- (C) CITY: Palo Alto
- (D) STATE: CA
- (E) COUNTRY: U.S.
- (F) ZIP: 94301

40           (v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette
- (B) COMPUTER: IBM Compatible
- (C) OPERATING SYSTEM: DOS
- (D) SOFTWARE: FastSEQ Version 1.5

45           (vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: To Be Assigned
- (B) FILING DATE: Filed Herewith

50           (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/282,955
- (B) FILING DATE: July 29, 1995

- (A) APPLICATION NUMBER: 08/187,530
- (B) FILING DATE: January 27, 1994

- (A) APPLICATION NUMBER: 08/179,873
- (B) FILING DATE: January 11, 1994

- (A) APPLICATION NUMBER: 08/100,523

(B) FILING DATE: August 3, 1993

(A) APPLICATION NUMBER: 07/977,780  
(B) FILING DATE: November 19, 1992

(A) APPLICATION NUMBER: 07/916,491  
(B) FILING DATE: July 17, 1992

(A) APPLICATION NUMBER: 08/289,822  
(B) FILING DATE: August 12, 1994

(A) APPLICATION NUMBER: 08/581,240  
(B) FILING DATE: December 29, 1995

(A) APPLICATION NUMBER: 08/657,697  
(B) FILING DATE: May 29, 1996

(A) APPLICATION NUMBER: 08/747,547  
(B) FILING DATE: November 12, 1996

(A) APPLICATION NUMBER: 08/712,710  
(B) FILING DATE: September 12, 1996

(A) APPLICATION NUMBER: 08/744,026  
(B) FILING DATE: November 5, 1996

(A) APPLICATION NUMBER: 08/786,999  
(B) FILING DATE: January 23, 1997

(A) APPLICATION NUMBER: 08/822,262  
(B) FILING DATE: March 20, 1997

(A) APPLICATION NUMBER: 08/000,000 (as yet unassigned)  
(B) FILING DATE: October 16, 1997

35 (viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Francis, Carol L.
- (B) REGISTRATION NUMBER: 36,513
- (C) REFERENCE/DOCKET NUMBER: 6514/069001

40 (ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 650-327-3400
- (B) TELEFAX: 650-327-3231

45 (2) INFORMATION FOR SEQ ID NO:1:

50 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

55 (ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: Pancreatic Cancer

(B) CLONE: PANC1A

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

5	GTACGGAGGT GAGGTTTGTN ACCCGCATTG TAAGAGGTGG GCTTTAGTC CCTCCAGACC	60
	TCGGCTTTAG TGCTGTCTCC GCTTTTYTTT CACCTTCACA GAGGTTCGTG TCTTCCTAAA	120
	AGAAGGTTTT ATTGGGAGGT AAAGGTCAAT GCGTAGGGGT AGAGTAAGAT GTCTTATGGT	180
	GAAATTRAAG GTAAATTCTT GGGACCTAGA GAAGAAGTAA CGAGTGAGCC ACGCTGTAAA	240
10	AAATTGAAGT CAACCACAGA GTCGTATGTT TTTCACAATC ATAGTAATGC TGATTTTCAC	300
	AGNATCCAAG AGAAAAGTGG AAATGATTGG GTCCCTGTGN NCATCATTTGA TGTCAGAGGA	360
	CATAGTTATT TGC	373

(2) INFORMATION FOR SEQ ID NO:2:

15 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 321 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 20 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

25 (vii) IMMEDIATE SOURCE:  
 (A) LIBRARY: Pancreatic Cancer  
 (B) CLONE: PANC1B

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

30	GTGAGGTTTG TTACCCNCAT TCTGAGAGGT GGGCTTTAG TCCCTCCAGA CCTCGGCTTT	60
	AGTGCTGTCT CCGMTTTCT TTCACCTTCAGAGATGTC TTATGGTGAA ATTGAAGGTA	120
	AATTCTTGGG ACCTAGWGAA GAAGTAACGA GTGAGCCACG CTGTAAAAAA TTGAAGTCAA	180
	CCACAGAGTC GTATGTTTT CACAATCATA GTAATGCTGA TTTTCACAGW ATCCAAGAGA	240
35	AAACTGGAAA TGATTGGGT CCCTGTGACC ATCATTNATG TCAGAGGNCA TAGTTAATT	300
	GCAGGAGANC AAAATCAAA A	321

(2) INFORMATION FOR SEQ ID NO:3:

40 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 528 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

45 (vii) IMMEDIATE SOURCE:  
 (A) LIBRARY: NEUTGMT01  
 (B) CLONE: 637393

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

50	ATGACAGACT GTGAATTGG ATATATTAC AGGCTGGCTC AGGACTATCT GCAGTGCCTC	60
	CTACAGATAC CACAAACCTGG ATCAGGTCCA AGCAAAACGT CCAGAGTGCT ACAAAATGTT	120
55	GGTTTCTCAG TCCAAAAAGA AGTGGAAAAG AATCTGAAGT CATGCTTGGCA CAATGTTAAT	180
	GTTGTGTCCG TAGACACTGC CAGAACACTA TTCAACCAAG TGATGGAAAA GGAGTTGAA	240
	GACGACATCA TTAACGGGG AAGAATTGTA ACCATATTG CATTGAAAGG TATTCTCATC	300

AAGAAACTTC TACGACAGCA AATTGCCCG GATGTGGATA CCTATAAGGA GATTCATAT      360  
 TTTGTTGCCG AGTTCATATAAT GAATAACACA GGAGAATGGA TAAGGCAGAA CGGAGGCTGG      420  
 GAAAATGGCT TTGTAAAGAA GTTTGAACCT AAATCTGGCT GGATGACTTT TCTAGAAGTT      480  
 ACAGGAAAGA TCTGTGAAAT GCTATCTCTC CTGAAGCAAT ACTGTTGA      528

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## (2) INFORMATION FOR SEQ ID NO:4:

- 10 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 405 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

20	GTCCAATCA CTCATTGTTT GTGAAAGCTG AGCTCACAGC AAAACAAGCC ACCATGAAGC	60
	TGTCGGTGTG TCTCCTGCTG GTCACGCTGG CCCTCTGCTG CTACCAGGCC AATGCCGAGT	120
	TCTGCCAGC TCTTGTTCCT GAGCTGTTAG ACTTCTTCTT CATTAGTCAA CCTCTGTTCA	180
	AGTTAACGTCT TGCCAAATTT GATGCCCTCT CGGAAGCTGT TGCAGCCAAG TTAGGAGTGA	240
	AGAGATGCAC GGATCAGATG TCCCTTCAGA AACGAAGCCT CATTGCGGAA GTCCCTGGTGA	300
25	AAATATTGAA GAAATGTAGT GTGTGACATG TAAAAACTTT CATCCTGGTT TCCACTGTCT	360
	TTCAATGACA CCCTGATCTT CACTGCAGAA TGTAAGGTT TCAAC	405

## 30 (2) INFORMATION FOR SEQ ID NO:5:

- 35 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 495 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

	GATCCTGCC ACCCGCGACT GAACACCGAC AGCAGCAGCC TCACCATGAA GTTGCTGATG	60
	GTCCTCATGC TGGCGCCCT CTCCCAGCAC TGCTACGCAG GCTCTGGCTG CCCCTTATTG	120
	GAGAATGTGA TTTCCAAGAC AATCAATCCA CAAGTGTCTA AGACTGAATA CAAAGAACCT	180
45	CTTCAAGAGT TCATAGACGA CAATGCCACT ACAAAATGCCA TAGATGAATT GAAGGAATGT	240
	TTTCTTAACC AAACGGATGA AACTCTGAGC AATGTGAGG TGTGTTATGCA ATTAAATAT	300
	GACAGCAGTC TTTGTGATTT ATTTTAACCT TCTGAAAGAC CTTGGCTCA CAGAACTGCA	360
	GGGTATGGTG AGAAACCAAC TACGGATTGC TGCAAACAC ACCTTCTCTT TCTTATGTCT	420
	TTTACTACA AACTACAAGA CAATTGTTGA AACCTGCTAT ACATGTTAT TTTAATAAAT	480
50	TGATGGCAAA AACTG	495

## (2) INFORMATION FOR SEQ ID NO:6:

- 55 (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 1143 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:  
 (A) LIBRARY:  
 (B) CLONE: Consensus

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GGCCCCGCCG	CGCCCCGGCGC	GCCCAGCCGC	CGGGGGATG	TCTTACAAAC	CGAACTTGGC	60
CGCGCACATG	CCCGCCGCGC	CCCTCAACGC	CGCTGGGAGT	GTCCACTCGC	CTTCCACCAG	120
CATGGCAACG	TCTTCACAGT	ACCGCCAGCT	GCTCACTGAC	TACGGGCCAC	CGTCCCTAGG	180
15 CTACACCCAG	GGAACTGGGA	ACAGCCAGGT	GCCCCAAAGC	AAATACGCGG	AGCTGCTGGC	240
CATCATTGAA	GAGCTGGGGA	AGGAGATCAG	ACCCACGTAC	GCAGGGAGCA	AGAGTGCCAT	300
GGAGAGGCTG	AAGCGCGGCA	TCATTCAACGC	TAGAGGACTG	GTTCGGGAGT	TCTTGGCAGA	360
AACGGAACGG	AATGCCAGAT	CCTAGCTGCC	TTGTTGGTTT	TGAAGGATT	CCATCTTTT	420
ACAAGATGAG	AAGTTACAGT	TCATCTCCCC	TGTTCAAGATG	AAACCCCTGT	TTTCAAATG	480
20 GTTACAGTT	CGTTTTCCCT	CCCATGGTTC	ACTTGGCTCT	GAACCTACAG	TCTCAAAGAT	540
TGAGAAAAGA	TTTGCAGTT	AATTAGGATT	TGCATTTAA	GTAGTTAGGA	ACTGCCAGG	600
TTTTTTTTGT	TTTTTAAGCA	TTGATTTAA	AGATGCACGG	AAAGTTATCT	TACAGCAAAC	660
TGTAGTTGC	CTCCAAGACA	CCATTGTCTC	CCTTTAATCT	TCTCTTTGT	ATACATTTGT	720
TACCCATGGT	GTTCTTGTT	CCTTTTCATA	AGCTAATACC	ACTGTAGGG	TTTTGTTTG	780
25 AACGCATATT	GACAGCACGC	TTTACTTAGT	AGCCGGTTCC	CATTGCCAT	ACAATGTAGG	840
TTCTGCTTAA	TGTAACTTCT	TTTTGCTTA	AGCATTGCA	TGACTATTAG	TGCTTCAAAG	900
TCAATTTTTA	AAAATGCACA	AGTTATAAAT	ACAGAAGAAA	GAGCAACCCA	CCAAACCTAA	960
CAAGGACCCC	CGAACACTTT	CATACTAAGA	CTGTAAGTAG	ATCTCAGTTC	TGCGTTTATT	1020
GTAAGTTGAT	AAAAACATCT	GGAAGAAAAT	GACTAAAAT	GTTTGATCT	TTGTATGTAT	1080
30 TTATTACTTG	ATGTAATAAA	GCTTATTTTC	ATTAACAATT	TGTATTAAAA	TGTGGGTTCC	1140
TTG						1143

35 (2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 871 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

40 (vii) IMMEDIATE SOURCE:  
 (A) LIBRARY:  
 (B) CLONE: Consensus

45 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

50 ACCTGCTGGC	CCCTGGACAC	CTCTGTCACC	ATGTGGTTCC	TGGTTCTGTG	CCTCGCCCTG	60
TCCCTGGGGG	GGACTGGTGC	TGCGCCCCCG	ATTCACTCCC	GGATTGTGGG	AGGCTGGGAG	120
TGTGAGCAGC	ATTCCCAGCC	CTGGCAGGGC	GCACTGGTCA	TGGAAAACGA	ATTGTTCTGC	180
TCGGGCGTCC	TGGTGCATCC	GCAGTGGGTG	CTGTCAGCCG	CACACTGTT	CCAGAACTCC	240
TACACCATCG	GGCTGGGCCT	GCACAGTCTT	GAGGGCGACC	AAGAGCCAGG	GAGCCAGATG	300
55 GTGGAGGCCA	GCCTCTCCGT	ACGGCACCCA	GAGTACAACA	GACCCTTGCT	CGCTAACGAC	360
CTCATGNTCA	TCAAGTTGGA	CGAATCCGTG	TCCGAGTCTG	ACAACATCCG	GAGNATCAGC	420
ATTGNTTCGC	AGTGCCTAC	CGCGGGGAAC	TTTGCCTCG	TTTCTGGCTG	GGGCTGCTG	480

10	GCGAACGGCA	GAATGCCTAC	CGTGCTGCAG	TGCGTGAACG	TGTCGGTGGT	GTCTGAGGAG	540
	GTCTGCAGTA	AGCTCTATGA	CCCGCTGTAC	CACCCCAGCA	TGTTCTGCGC	CGGGGGAGGG	600
	CAAGACCAGA	AGGACTCCTG	CAACGGTGAC	TCTGGGGGGC	CCCTGATCTG	CAACGGGTAC	660
15	TTGCAGGGCC	TTGTGTCTT	CGGAAAAGCC	CCGTGTGGCC	AAGTTGGCGT	GCCAGGTGTC	720
	TACACCAACC	TCTGCAAATT	CACTGAGTGG	ATAGAGAAAA	CCGTCCAGGC	CAGTTAACTC	780
	TGGGGACTGG	GAACCCATGA	AATTGACCCC	CAAATACATC	CTGCGGAAGG	AATTCAAGAA	840
	TATCTGTTCC	CAGCCCCCTCC	TCCCTCAGGC	C			871

## 10 (2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 1428 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

- (A) LIBRARY: Colnnot01
- (B) CLONE: 609476

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

20	GGCCGGGTTG	GGGGTGTGCG	ATTGTGTGGG	ACGGTCTGGG	GCAGCCCAGC	AGCGGCTGAC	60
25	CCTCTGCCTG	CGGGGAAGGG	AGTCGCCAGG	CGGCCGTAT	GGCGGTGTCG	GAGAGCCAGC	120
	TCAAGAAAAT	GGTGTCCAAG	TACAAATACA	GAGACCTAAC	TGTACGTGAA	ACTGTCAATG	180
	TTATTACTCT	ATACAAAGAT	CTCAAACCTG	TTTTGGATTG	ATATGTTTT	AACGATGGCA	240
30	GTCCAGGGA	ACTAATGAAC	CTCACTGGAA	CAATCCCTGT	GCCTTATAGA	GGTAATACAT	300
	ACAATATTCC	AATATGCCCTA	TGGCTACTGG	ACACATACCC	ATATAATCCC	CCTATCTGTT	360
35	TTGTTAACGCC	TACTAGTTCA	ATGACTATTA	AAACAGGAAA	GCATGTTGAT	GCAAATGGGA	420
	AGATATATCT	TCCTTATCTA	CATGAATGGA	AACACCCACA	GTCAGACCTG	TTGGGGCTTA	480
	TTCAAGGTGAT	GATTGGGTA	TTTGGAGATG	AACCTCCAGT	CTTCTCTCGT	CCTATTTCGG	540
	CATCCTATCC	GCCATACCCAG	GCAACGGGGC	CACCAAATAC	TTCCCTACATG	CCAGGCATGC	600
	CAGGTGGAAT	CTCTCCATAC	CCATCCGGAT	ACCCCTCCAA	TCCCAGTGGT	TACCCAGGCT	660
40	GTCCCTTACCC	ACCTGGTGGT	CCATATCCG	CCACAAACAAG	TTCTCAGTAC	CCTCTCTCAGC	720
	CTCCCTGTGAC	CACTGGTGGT	CCCAGTAGGG	ATGGCACAAAT	CAGCGAGGAC	ACCATCCGAG	780
	CCTCTCTCAT	CTCTGGGGTC	AGTGCACAAAC	TGAGATGGCG	GATGAAGGGAG	GAAATGGATC	840
	GTGCCCGAGGC	AGAGCTCAAT	GCCTTGAAAC	GAACAGAAGA	AGACCTGAAA	AAGGGTCACC	900
	AGAAAACCTGGA	AGAGATGGTT	ACCCGTTTAG	ATCAAGAAGT	AGCCGAGGTT	GATAAAAACA	960
45	TAGAACTTTT	GAAAAAGAAG	GATGAAGAAC	TCAGTCTGTC	TCTGGAAAAA	ATGAAAATC	1020
	AGTCTGAAAAA	CAATGATATC	GATGAAGTAA	TCATCCCCAC	AGCTCCCTTA	TACAAACAGA	1080
	TCCTGAATCT	GTATGCAGAA	AAAAACGCTA	TTGAAGACAC	TATCTTTAC	TTGGGAGAAG	1140
	CCTTGAGAAG	GGCGCTGATA	GACCTGGATG	TCTTCTGAA	GCATGTAACGT	CTTCTGTCCC	1200
	GTAACACAGT	CCAGCTGAGG	GCACTAATGC	AAAAAGCAAG	AAAGACTGCC	GGTCTCAGTG	1260
50	ACCTCTACTG	ACTTCTCTGA	TACCAGCTGG	AGGTGAGCT	CTTCTTAAAG	TATTCTCTC	1320
	TTCCTTTAT	CAGTAGGTGC	CCAGAATAAG	TTATTGCACT	TTATCATTCA	MGTGAAAAT	1380
	ATTGGATC	AATAATATAT	TTTCTGTTT	CTTTGGTAA	AGATGGAT		1428

## 50 (2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 667 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (vii) IMMEDIATE SOURCE:

(A) LIBRARY: THPINOT03  
 (B) CLONE: 2446131

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

5	GGCTGAGCGG CCCCAGCC AACCCCCGAG GAGCGGCCGG CTGGCGTCCG CCGCGCCAG	60
	GAGTTGGGA TGTCCTACAA ACCCATCGCC CCTGCTCCA GCAKCACCCC TGGCTCCAGC	120
	ACCCCTGGGC CGGGCACCCC GGTCCCTACA GGAAGCGTCC CGTCGCCGTC GGGCTCAGTG	180
	CCAGGAGCCG GCGCTCCTT CAGACCGCTG TTTAACGACT TTGGACGCC TTCCATGGGC	240
10	TACGTGCAGG CGATGAAGCC ACCCGGCGCC CAGGGCTCCC AGAGCACCTA CACGGACCTG	300
	CTGTCAGTCA TAGAGGAGAT GGGCAAAGAG ATCCGGCCTA CCTATGCTGG CAGCAAGAGC	360
	GCCATGGAGC GCCTGAAGAG AGGTATCATC CATGCCCGGG CCCTAGTCAG AGAGTGCCTG	420
	GCAGAGACAG AGCGGAACGC CCGCACGTA CAGGAAGCGC CTCGGCCTCA GCGTCTGGAC	480
	CTATCCGGCC ACTGCAGAGC ACCCGCTTCT CCCTGGCCTT CATCCCGAGT TGCACTAACC	540
15	ATCCTGGGCT TCCTGTCTG TGTCCCTTGG TGGGTCCCCT CCAGGAACCA AGGAGTGGCC	600
	CTCCAGGTGG CAGCACTAAG GACACCCCCC CACAACAAGA GTTAGCAGCG AGGTCCCCAT	660
	GAGTCCC	667

## (2) INFORMATION FOR SEQ ID NO:10: -

20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 397 base pairs
	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: single
25	(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

30	CTGAACCTCTA CCTGGTGACC AGGGACCAGG ACCTTTATAA GGTGGAAGGC TTGATGTCCT	60
	CCCCAGACTC AGCTCCTGGT GAAGCTCCA GCCATCAGCC ATGAGGGTCT TGTATCTCCT	120
	CTTCTCGTTC CTCTTCATAT TCCTGATGCC TCTTCAGGT GTTTTGTTG GTATAGGCAGA	180
	TCCCCTTACCG TGCCTTAAGA GTGGAGCCAT ATGTCATCCA GTCTTTGCC CTAGAAGGTA	240
	TAAACNAATT GGCACCTGTG GTCTCCCTGG AACAAAATGC TGAAAAAAGC CATGAGGAGG	300
35	CCAAGAAGCT GCTGTGGCNG ANGCGGATTC AGAAAAGGGCT CCCTCATCAG AGANGTGCAGA	360
	CATGTAAACC AAATTAACAT ATGGTGTCCA ANGATAN	397